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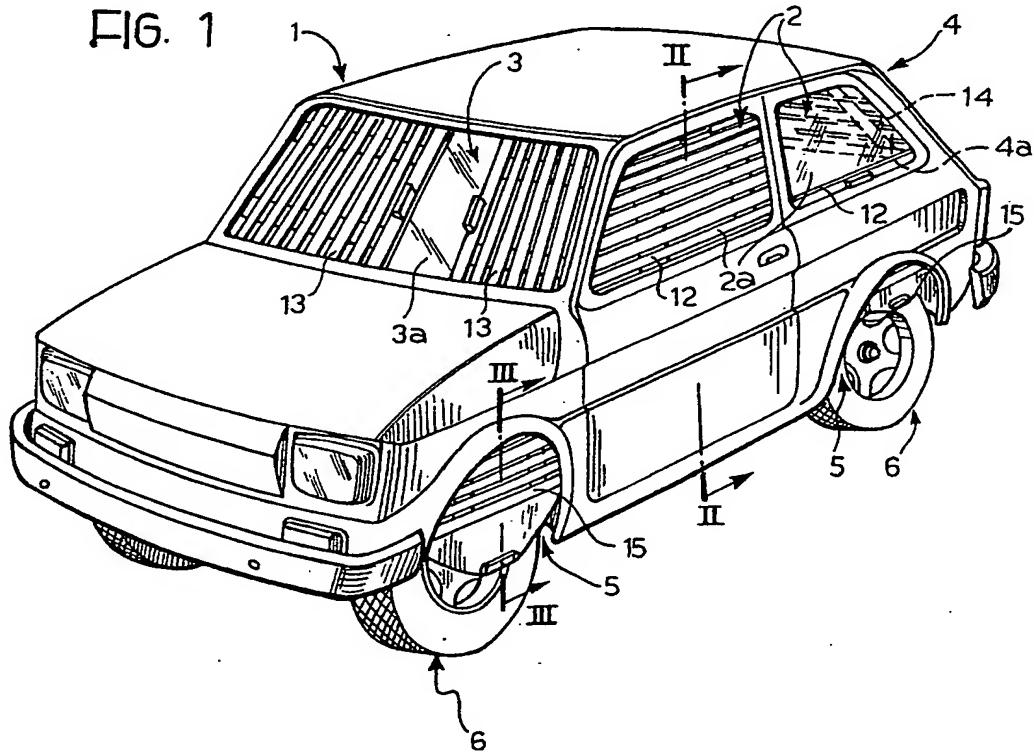
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(54) Motor vehicle provided with improved anti-theft means

(57) A motor vehicle (1), which
includes a body with glazed apertures
(2, 3, 4) and wheel arches (5), is
provided with protective shutters (12,
13, 14, 15) in correspondence with

each glazed aperture (2, 3, 4) and
wheel arch (5). Each shutter (12, 13,
14, 15) is slidable between an
inoperative position in which it is
hidden from view, and an operative
position in which it covers the
respective glazed aperture (2, 3, 4) or
wheel arch (5). The shutters (15)
associated with the wheel arches (5)
are shaped so as to prevent access to
the means (8) for fixing the wheels (6)
to their respective rotary mountings
(7) in the operative positions. The
shutters (15) associated with the
wheel arches (5) for the steered
wheels are shaped so as to prevent
steering of the wheels in their
operative positions.

FIG. 1



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FIG. 2

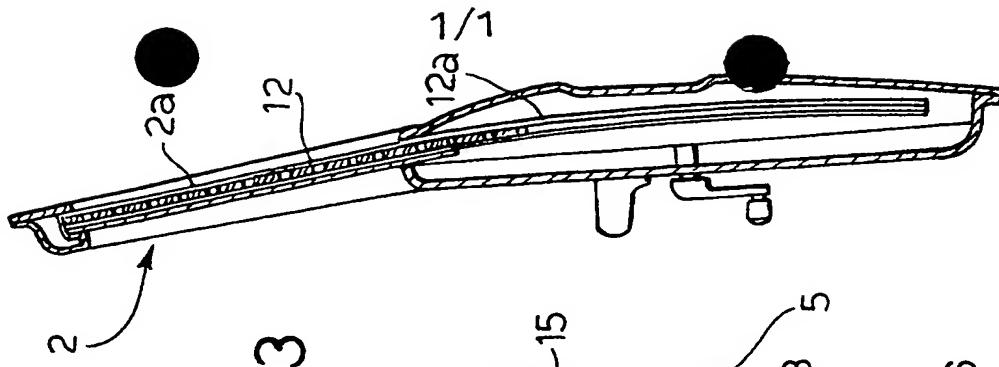
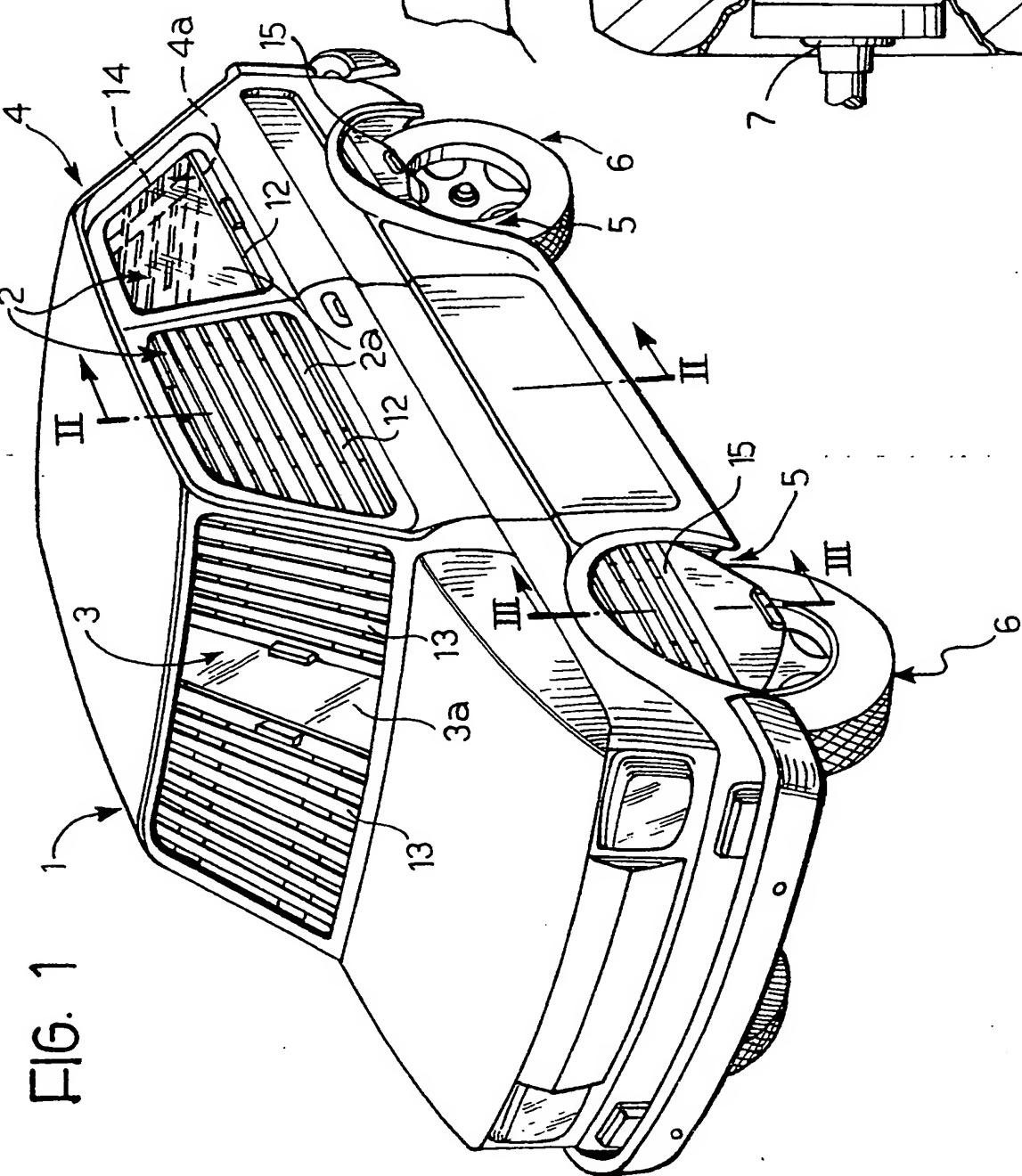
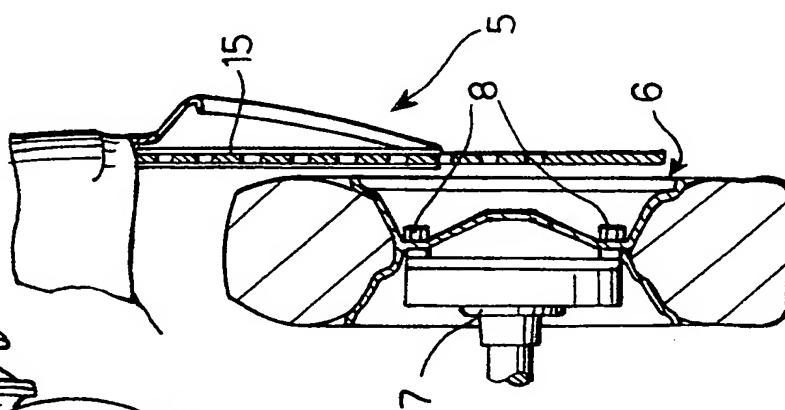


FIG. 3



SPECIFICATION**Motor vehicle provided with improved anti-theft means**

- The present invention relates to motor vehicles 5 provided with anti-theft means and is concerned particularly with motor vehicles including a body with glazed apertures and wheel arches.
- In motor vehicles, particularly motor cars, the provision of anti-theft means for preventing the 10 removal of the vehicle and parts thereof, such as, the wheels and accessories mounted within the passenger compartment, is problematical.
- The problem is accentuated by the increasingly widespread theft of objects from within the 15 passenger compartment, such as, purses, cameras, and the like laid on the seats.
- In many cases, these thefts are perpetrated during brief stops of the vehicle and in the presence of passengers therein.
- 20 The anti-theft means provided on conventional types of motor vehicles are intended essentially to prevent the theft of the vehicle and are not generally able to provide sufficient protection against the theft of the parts of the vehicle or objects carried thereby, particularly the passenger compartment.
- 25 The object of the present invention is to provide a motor vehicle of the type specified above which does not have the aforementioned drawbacks.
- 30 In order to achieve this object, the present invention provides a motor vehicle of the type specified above, characterised in that it is provided with protective shutters in correspondence with each glazed aperture and wheel arch, each of 35 these shutters being slidable between an inoperative position in which the shutter is hidden from view, and an operative position in which it covers its respective glazed aperture or wheel arch.
- 40 By virtue of this characteristic, when the protective shutters are in their operative positions, the breakage of the glass closing the glazed apertures of the body does not allow access into the passenger compartment of the vehicle.
- 45 according to the invention. In the same way, the protective shutters associated with the wheel arches prevent access to the wheels themselves.
- The invention will now be described, purely by 50 way of non-limiting example, with reference to the appended drawings, in which:
- Figure 1 is a perspective view of a motor vehicle according to the invention;
- Figure 2 is a section taken on the line II—II of Figure 1, and
- 55 Figure 3 is a section taken on the line III—III of Figure 1.
- In Figure 1, a motor vehicle, generally indicated 1, includes a body with side windows 2 closed by panes 2a, a front window 3 closed by a 60 windscreens 3a and a rear window 4 with which a pane 4a is associated.
- In addition to the glazed apertures 2, 3, 4, the body of the vehicle 1 has arches 5 in which the wheels 6 are fixed to respective rotary mountings

65 7 by fixing screws (bolts) 8.

Protective shutters 12, 13, 14 are associated with the glazed apertures 2, 3, 4 and each is slidable adjacent that surface of the respective pane 2a, 3a, 4a which faces outwardly of the

70 vehicle.

Each shutter 12, 13, 14 is slidable between an inoperative position in which the shutter is hidden from view, and an operative position in which it covers its respective glazed aperture.

75 In Figure 1, the shutter 12 associated with the front left-hand side window is illustrated in its operative position, while the shutter associated with the corresponding rear window is illustrated in its inoperative position.

80 As best seen in Figure 2, the shutters 12 associated with the side windows 2 are slidable vertically in lateral guides 12a located in the sides of the vehicle which allow the shutters 12 to retract into the body to below the waistline.

85 A similar arrangement allowing the vertical sliding of the shutter 14 is present in correspondence with the rear window 4.

The shutter 13 associated with the windscreens 3a is constituted by two shutter elements slidable 90 horizontally towards each other.

In Figure 1, one of these elements is illustrated in its operative position, while the other is illustrated in an intermediate position between the operative position and the inoperative position in

95 which the shutter element is hidden from view in one of the side pillars of the windscreens.

Protective shutters 15 are associated with the wheel arches 5 and each of these is slidable between an inoperative position in which the shutter is hidden from view, and an operative position in which it covers its respective wheel arch 5.

In Figure 1, the shutters 15 associated with the front left-hand and rear left-hand wheel arches of the vehicle 1 are illustrated in the operative position and inoperative position, respectively.

As best seen in Figure 3, the protective shutters 15 are shaped so as to prevent access to the screws 8 for fixing the wheels to their respective 100 rotary mountings in their operative positions.

The shape of the shutters 15 is also such as to prevent steering of the steered wheels of the vehicle in their operative position.

From what has been described above and illustrated, it is clear that the shutters 12, 13, 14, 115 15 constitute an anti-theft system which can prevent both the removal of the vehicle and parts of the vehicle and the removal of objects carried thereby in the passenger compartment.

In their operative positions, the shutters 12, 13, 14 associated with the glazed apertures 2, 3, 4 extend so as to protect the panes 2a, 3a, 4a and prevent access to the interior of the passenger compartment by breakage of one of these panes.

120 125 The shutters 12, 13, 14 may be formed in such a manner as to allow vision from the passenger compartment even when the shutters themselves are in their operative positions.

Such an embodiment is particularly

advantageous for preventing thefts attempted by breaking a window of a vehicle which has stopped briefly in the traffic with passengers therein.

5 The shutters 15 associated with the wheel arches, which render the screws 8 for fixing the wheels 5 inaccessible from the outside in their operative positions, prevent the removal of the wheels from the vehicle when it is stopped.

10 In their operative positions, the shutters 15 associated with the arches of the steered wheels prevent steering of the wheels and hinder theft of the vehicle.

15 Naturally, while the principle of the invention remains the same, the details of construction and forms of embodiment may be varied widely with respect to that described and illustrated, without thereby departing from the scope of the present invention.

CLAIMS

20 1. A wheeled motor vehicle including a body with glazed apertures and wheel arches, in which it is provided with protective shutters in correspondence with each glazed aperture and wheel arch, each shutter being slidable between 25 an inoperative position in which the shutter is hidden from view, and an operative position in which it covers its respective glazed aperture or wheel arch.

- 30 2. A motor vehicle as claimed in Claim 1, in which each protective shutter associated with a glazed aperture is slidable adjacent that surface of the respective closure pane which faces outwardly of the motor vehicle.
- 35 3. A motor vehicle as claimed in Claim 1, in which the shutters associated with the wheel arches of the steered wheels are shaped so as to prevent the steering of the wheels in their operative positions.
- 40 4. A motor vehicle as claimed in Claim 1, in which the protective shutters associated with the wheel arches are shaped so as to prevent access to the means for fixing the wheels to their respective rotary mountings in their operative positions.
- 45 5. A motor vehicle as claimed in Claim 1 or Claim 2, in which the shutters associated with the side windows and/or the rear window are slidable vertically and, in their inoperative positions, retract into the body to below the waistline.
- 50 6. A motor vehicle as claimed in Claim 1 or Claim 2, in which the shutter associated with the windscreens is constituted by two shutter elements which are slidable horizontally towards each other and are housed in the front window pillars in their inoperative positions.
- 55 7. A wheeled motor vehicle substantially as described with reference to, and as shown in, the appended drawings.